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(21) International Application Number: PCT/US95/13296 (22) International Filing Date: 17 October 1995 (17.10.95) (30) Priority Data: 111325 18 October 1994 (18.10.94) IL (71) Applicant (for all designated States except US): RAMOT UNIVERSITY AUTHORITY FOR APPLIED RESEARCH & INDUSTRIAL DEVELOPMENT LTD. [IL/IL]; 32 Haim Levanon Street, 61392 Tel Aviv (IL). (72) Inventors; and (75) Inventors/Applicants (for US only): SHOSHAN, Herbert, Z. [US/IL]; 344 Agur Street, 71908 Maccabim (IL). FEDER, Meir [IL/IL]; 12 Shirat Hazamir Street, 46420 Herzlia (IL). GORDON, Arik, Z. [IL/IL]; 9 Stern Street, 46412 Herzlia (IL). (74) Agents: GALLOWAY, Peter, D.; Ladas & Parry, 26 West 61st Street, New York, NY 10023 (US) et al.		(81) Designated States: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

(54) Title: APPARATUS AND METHOD FOR COMPRESSING BINARIZED IMAGES

(57) Abstract

An apparatus and method for compressing binarized images (90) comprising receiving a binarized image (70) and generating a first sequence of first code symbols (80) representing the binarized image wherein at least one row of the image is represented in run-length encoded format and encoding a portion of the first sequence of code symbols using a preliminary encoding scheme, thereby to provide a first portion of a second sequence of code symbols, and, while encoding, accumulating the frequency of at least some of the first code symbols thus far encoded (100) and generating an additional portion of the second sequence using a modified version of the code scheme such that at least one subsequent code symbol in the first sequence with a large accumulated frequency is encoded more compactly in the second portion than at least one subsequent code symbol in the first sequence with a small accumulated frequency.

